# Mouse TYRO3 Protein

**Cat. No.** TYR-MM103

## Description

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|---|---|
| **Source** | Recombinant Mouse TYRO3 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Arg31-Asp419. |
| **Accession** | P55144-2 |
| **Molecular Weight** | The protein has a predicted MW of 43 kDa. Due to glycosylation, the protein migrates to 60-75 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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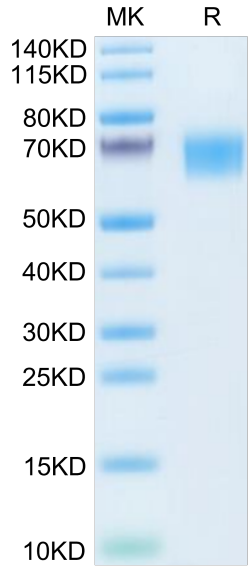
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

The TAM receptors (Tyro3, Axl and MerTK) are promising therapeutic targets on tumor-associated macrophages. The TAM receptors are a family of receptor tyrosine kinases with shared ligands Gas6 and Protein S that skew macrophage polarization towards a pro-tumor M2-like phenotype.In macrophages, the TAM receptors also promote apoptotic cell clearance, a tumor-promoting process called efferocytosis. The TAM receptors bind the "eat-me" signal phosphatidylserine on apoptotic cell membranes using Gas6 and Protein S as bridging ligands.

## Assay Data

**Bis-Tris PAGE**




Mouse TYRO3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

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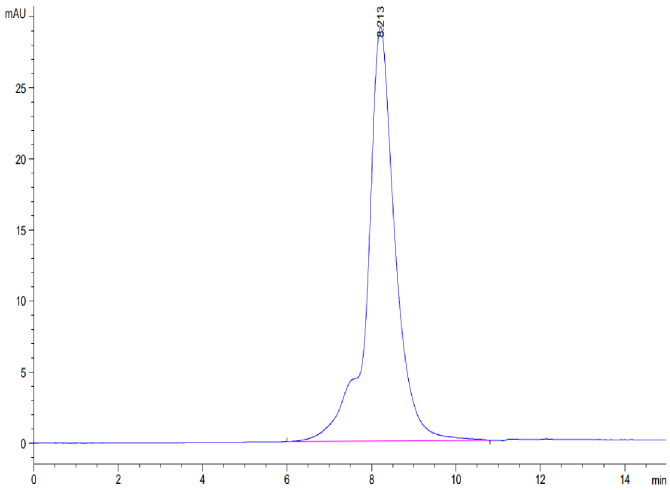
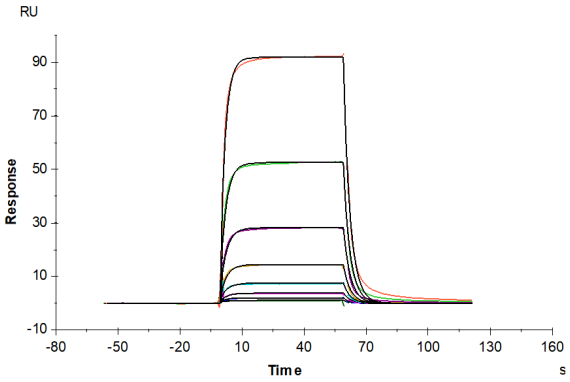



The purity of Mouse TYRO3 is greater than 95% as determined by SEC-HPLC.

### SPR Data




Mouse TYRO3, His Tag immobilized on CM5 Chip can bind Mouse GAS6, His Tag with an affinity constant of 11.31 μM as determined in SPR assay (Biacore T200).